

**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**Page 1 of 1

PATENT NO. : 7,165,065 B1

APPLICATION NO.: 09/616,643

ISSUE DATE : January 16, 2007

INVENTOR(S) : Welton et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Assignee should read: Oracle International Corporation

**\*\*See attached Assignment Recordation documenting correct Assignee**

**MAILING ADDRESS OF SENDER (Please do not use customer number below):**

Chapin Intellectual Property Law, LLC  
Westborough Office Park, 1700 West Park Drive, Ste. 280  
Westborough, MA 01581

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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WESTBOROUGH OFFICE PARK  
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TELEPHONE: (508) 616-9660  
FACSIMILE: (508) 616-9661  
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**December 10, 2008**

From:	<b>MELANIE SOLOMAN</b>	Your Reference No.:	
		Our Reference No.:	OID06-33

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	Office of Petitions	USPTO	571-2738300	

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Please correct the error, reissue the patent with the correction and credit any fees. Please feel free to contact me at (617) 201-4487.

Melanie Soloman

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## Fax Call Report

Job	Date	Time	Type	Identification	Duration	Pages	Result
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Please correct the error, reissue the patent with the correction and credit any fees. Please feel free to contact me at (617) 201-4487.

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US007165065B1

(12) **United States Patent**  
**Welton et al.**

(10) **Patent No.:** **US 7,165,065 B1**  
(45) **Date of Patent:** **Jan. 16, 2007**

(54) **MULTIDIMENSIONAL DATABASE  
STORAGE AND RETRIEVAL SYSTEM**

(75) Inventors: **Caleb E. Welton**, Malden, MA (US);  
**Albert A. Hopeman**, Arlington, MA  
(US); **Andrew H. Goldberg**, Newton  
Centre, MA (US)

(73) Assignee: **Oracle Corporation**, Redwood Shores,  
CA (US)

(\*) Notice: Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
U.S.C. 154(b) by 440 days.

(21) Appl. No.: **09/616,643**

(22) Filed: **Jul. 14, 2000**

(51) **Int. Cl.**  
**G06F 17/30** (2006.01)

(52) **U.S. Cl.** ..... **707/4; 707/2; 707/10; 707/101;  
707/102**

(58) **Field of Classification Search** ..... **707/1-10;  
707/100, 102, 200, 205, 503, 104.1, 101;  
711/216**

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

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5,359,724	A *	10/1994	Earle	707/205
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5,926,820	A *	7/1999	Agrawal et al.	707/2
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6,223,182	B1 *	4/2001	Agarwal et al.	707/102
6,272,498	B1 *	8/2001	Muthukrishnan et al.	707/102

(Continued)

**OTHER PUBLICATIONS**

Shukla, Amit et al., "Storage Estimation for Multidimensional Aggregates in the Presence of Hierarchies", Proceedings of the 22nd VLDB Conference Mumbai (Bombay), India 1996, pp. 522-531.\*

(Continued)

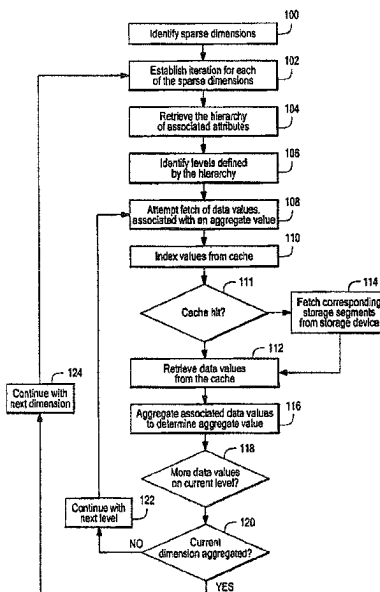
Primary Examiner—Shahid Alam

(74) Attorney, Agent, or Firm—Chapin IP Law, LLC; Barry W. Chapin, Esq.

(57) **ABSTRACT**

In a multidimensional database, an aggregation operation is performed in an optimal manner by storing the values included in the/aggregation operation on the same disk page. A sparsity manager determines aggregate values that are computed from other data values during the aggregation operation. Each aggregate value is associated with one or more data values that are used during the aggregation operation to compute the aggregate value. The sparsity manager stores the associated data values in proximity to each other, such as on the same disk page, so that multiple disk page fetches may not be required for the same set of data values during the aggregation operation. The data values used in the aggregation operation can therefore be fetched once from a disk page, and thereafter are found in memory, such as on a cache page corresponding to the disk page. In this manner, multiple fetches for the same disk page during the aggregation operation are avoided.

**16 Claims, 11 Drawing Sheets**





**UNITED STATES PATENT AND TRADEMARK OFFICE**

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APRIL 07, 2005

PTAS

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RODNEY D. JOHNSON, ESQ.  
530 VIRGINIA ROAD, P.O. BOX 9133  
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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 11/14/2003

REEL/FRAME: 014177/0071  
NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

ORACLE CORPORATION

DOC DATE: 10/30/2003

ASSIGNEE:

ORACLE INTERNATIONAL CORPORATION  
500 ORACLE PARKWAY  
REDWOOD SHORES, CALIFORNIA 94065

SERIAL NUMBER: 09955773

FILING DATE: 09/19/2001

PATENT NUMBER:

ISSUE DATE:

TITLE: COMPUTING SYSTEM FOR IMPLEMENTING A SHARED CACHE

SERIAL NUMBER: 08961743

FILING DATE:

PATENT NUMBER: 6691118

ISSUE DATE: 02/10/2004

TITLE: CONTEXT MANAGEMENT SYSTEM FOR MODULAR SOFTWARE ARCHITECTURE

SERIAL NUMBER: 08866744 FILING DATE: 05/30/1997  
PATENT NUMBER: ISSUE DATE:  
TITLE: SYSTEM FOR DYNAMICALLY CONSTRUCTING AN EXECUTABLE COMPUTER PROGRAM

SERIAL NUMBER: 09321090 FILING DATE:  
PATENT NUMBER: 6871222 ISSUE DATE: 03/22/2005  
TITLE: QUORUMLESS CLUSTER USING DISK-BASED MESSAGING

SERIAL NUMBER: 09322472 FILING DATE: 05/28/1999  
PATENT NUMBER: ISSUE DATE:  
TITLE: USING A CLUSTER-WIDE SHARED REPOSITORY TO PROVIDE THE LATEST  
CONSISTENT DEFINITION OF THE CLUSTER (AVOIDING THE PARTITION-IN  
TIME PROBLEM)

SERIAL NUMBER: 09321967 FILING DATE: 05/28/1999  
PATENT NUMBER: ISSUE DATE:  
TITLE: PROVIDING FIGURE OF MERIT VOTE FROM APPLICATION EXECUTING ON A  
PARTITIONED CLUSTER

SERIAL NUMBER: 09321809 FILING DATE: 05/28/1999  
PATENT NUMBER: ISSUE DATE:  
TITLE: SYSTEM FOR EXTENDING AN ADDRESSABLE RANGE OF MEMORY

SERIAL NUMBER: 09567162 FILING DATE:  
PATENT NUMBER: 6684221 ISSUE DATE: 01/27/2004  
TITLE: UNIFORM HIERARCHICAL INFORMATION CLASSIFICATION AND MAPPING SYSTEM

SERIAL NUMBER: 10409030 FILING DATE: 04/07/2003  
PATENT NUMBER: ISSUE DATE:  
TITLE: DATABASE SYSTEM HAVING LOGICAL ROW IDENTIFIERS

SERIAL NUMBER: 09703909 FILING DATE: 11/01/2000  
PATENT NUMBER: ISSUE DATE:  
TITLE: DATABASE INDEX VALIDATION MECHANISM

SERIAL NUMBER: 10602008 FILING DATE: 06/23/2003  
PATENT NUMBER: ISSUE DATE:  
TITLE: SYSTEM FOR CONTROLLING DATABASE GROWTH IN A READ-REPEATABLE  
ENVIRONMENT

SERIAL NUMBER: 10452461 FILING DATE:  
PATENT NUMBER: 6845430 ISSUE DATE: 01/18/2005  
TITLE: SYSTEM FOR MAINTAINING A BUFFER POOL

SERIAL NUMBER: 09641223 FILING DATE: 08/17/2000  
PATENT NUMBER: ISSUE DATE:  
TITLE: INTERVAL-BASED ADJUSTMENT SYSTEM FOR DATABASES

SERIAL NUMBER: 09578290 FILING DATE: 05/25/2000  
PATENT NUMBER: ISSUE DATE:  
TITLE: PARALLEL TASK SCHEDULING SYSTEM FOR COMPUTERS

SERIAL NUMBER: 09570276  
PATENT NUMBER:  
TITLE: CONTENT UPDATE PROXY METHOD

FILING DATE: 05/12/2000  
ISSUE DATE:

SERIAL NUMBER: 09616643 *2004-000*  
PATENT NUMBER:  
TITLE: MULTIDIMENSIONAL DATABASE STORAGE AND RETRIEVAL SYSTEM

FILING DATE: 07/14/2000  
ISSUE DATE:

SERIAL NUMBER: 09667648  
PATENT NUMBER:  
TITLE: SYSTEM FOR DISTRIBUTED ERROR REPORTING AND USER INTERACTION

FILING DATE: 09/22/2000  
ISSUE DATE:

SERIAL NUMBER: 09953083  
PATENT NUMBER:  
TITLE: NETWORK-BASED FILE ACCESS SYSTEM

FILING DATE: 09/14/2001  
ISSUE DATE:

SERIAL NUMBER: 09735356  
PATENT NUMBER:  
TITLE: DYNAMIC TREE CONTROL SYSTEM

FILING DATE: 12/12/2000  
ISSUE DATE:

SERIAL NUMBER: 09766949  
PATENT NUMBER:  
TITLE: SYSTEM FOR EDITING QUERY CONDITIONS, CALCULATIONS, FORMULAS AND EQUATIONS

FILING DATE: 01/22/2001  
ISSUE DATE:

SERIAL NUMBER: 09871444  
PATENT NUMBER:  
TITLE: SYSTEM AND METHOD FOR DISPLAYING DYNAMIC PAGE CONTENT IN A PAGE-CACHING BROWSER

FILING DATE: 05/31/2001  
ISSUE DATE:

SERIAL NUMBER: 10246661  
PATENT NUMBER:  
TITLE: SYSTEM AND METHOD FOR PARTIAL PAGE UPDATES USING A PROXY ELEMENT

FILING DATE: 09/18/2002  
ISSUE DATE:

SERIAL NUMBER: 10014038  
PATENT NUMBER:  
TITLE: DATABASE SYSTEM HAVING HETEROGENEOUS OBJECT TYPES

FILING DATE: 12/10/2001  
ISSUE DATE:

SERIAL NUMBER: 10165811  
PATENT NUMBER:  
TITLE: GEOCODING USING A RELATIONAL DATABASE

FILING DATE: 06/07/2002  
ISSUE DATE:

SHIRLIE SIMON, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS



**Schedule A**  
**Patent Applications**

<u>No</u>	<u>Attorney Docket No.</u>	<u>OIC Docket No.</u>	<u>Appl. No.</u>	<u>Filing Date</u>	<u>Title</u>
1	1958.1005-001	OID-1996-015-01-CON	09/955,773	09/19/2001	COMPUTING SYSTEM FOR IMPLEMENTING A SHARED CACHE
2	1958.1008-000	OID-1996-015-03	08/961,743	10/31/1997	CONTEXT MANAGEMENT SYSTEM FOR MODULAR SOFTWARE ARCHITECTURE
3	1958.1009-000	OID-1996-015-04	08/866,744	05/30/1997	SYSTEM FOR DYNAMICALLY CONSTRUCTING AN EXECUTABLE COMPUTER PROGRAM
4	1958.1018-000	OID-1999-035-03	09/321,090	05/28/1999	A QUORUMLESS CLUSTER USING DISK-BASED MESSAGING
5	1958.1019-000	OID-1999-035-04	09/322,472	05/28/1999	USING A CLUSTER-WIDE SHARED REPOSITORY TO PROVIDE THE LATEST CONSISTENT DEFINITION OF THE CLUSTER (AVOIDING THE PARTITION-IN-TIME PROBLEM)
6	1958.1024-000	OID-1999-035-05	09/321,967	05/28/1999	PROVIDING FIGURE OF MERIT VOTE FROM APPLICATION EXECUTING ON PARTITIONED CLUSTER
7	1958.1022-000	OID-1999-063-01	09/321,809	05/28/1999	SYSTEM FOR EXTENDING AN ADDRESSABLE RANGE OF MEMORY
8	1958.1023-001	OID-1999-070-01	09/567,162	05/08/2000	UNIFORM HIERARCHICAL INFORMATION CLASSIFICATION AND MAPPING SYSTEM
9	1958.1026-001	OID-1999-085-01-CON	10/409,030	04/07/2003	DATABASE SYSTEM HAVING LOGICAL ROW IDENTIFIERS
10	1958.1031-000	OID-1999-098-01	09/703,909	11/01/2000	DATABASE INDEX VALIDATION MECHANISM
11	1958.1028-001	OID-1999-111-01-CON	10/602,008	06/23/2003	SYSTEM FOR CONTROLLING DATABASE GROWTH IN A READ-REPEATABLE ENVIRONMENT
12	1958.1030-001	OID-1999-113-01-DIV	10/452,461	06/02/2003	SYSTEM FOR MAINTAINING A BUFFER POOL
13	1958.2005-000	OID-1999-128-01	09/641,223	08/17/2000	INTERVAL-BASED ADJUSTMENT SYSTEM FOR DATABASES
14	1958.2001-000	OID-1999-161-01	09/578,290	05/25/2000	PARALLEL TASK SCHEDULING SYSTEM FOR COMPUTERS
15	1958.2002-000	OID-1999-168-01	09/570,276	05/12/2000	CONTENT UPDATE PROXY METHOD
16	1958.2004-000	OID-1999-183-01	09/616,643	07/14/2000	MULTIDIMENSIONAL DATABASE STORAGE AND RETRIEVAL SYSTEM
17	1958.2006-000	OID-2000-048-01	09/667,648	09/22/2000	SYSTEM FOR DISTRIBUTED ERROR REPORTING AND USER INTERACTION
18	1958.2007-001	OID-2000-049-01	09/953,083	09/14/2001	NETWORK-BASED FILE ACCESS SYTEM
19	1958.2008-000	OID-2000-066-01	09/735,356	12/12/2000	DYNAMIC TREE CONTROL SYSTEM
20	1958.2009-000	OID-2000-076-01	09/766,949	01/22/2001	SYSTEM FOR EDITING QUERY CONDITIONS, CALCULATIONS, FORMULAS AND EQUATIONS
21	1958.2010-000	OID-2001-024-01	09/871,444	05/31/2001	SYSTEM AND METHOD FOR DISPLAYING DYNAMIC PAGE CONTENT IN A PAGE-CACHING BROWSER
22	1958.2011-000	OID-2001-121-01-CIP	10/246,661	9/18/2002	SYSTEM AND METHOD FOR PARTIAL PAGE UPDATES USING A PROXY ELEMENT
23	1958.2014-000	OID-2001-143-01	10/014,038	12/10/2001	DATABASE SYSTEM HAVING HETEROGENEOUS OBJECT TYPES
24	1958.2013-000	OID-2001-147-01	10/165,811	06/07/2002	GEOCODING USING A RELATIONAL DATABASE



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018 06-37

Patent No. : 7,165,065 B1  
Serial No. : 09/616643  
Inventor(s) : Welton et al.  
Issued : June 16, 2007  
Title : **MULTIDIMENSIONAL DATABASE STORAGE AND  
RETRIEVAL SYSTEM**  
Docket No. : 12962.0008.DVUS01

Re: Request for Certificate of Correction

Consideration has been given your request for the issuance of a certificate of correction for the above-identified patent under the provisions of 37 CFR 1.322 and/or 1.323.

A petition under 37 CFR 3.81 must be filed and granted to fulfill your request, to date, there is no petition on record to consider your request.

Furthermore, Assignees' and/ or Co-assignees' names and addresses (assignment data) printed in a patent are based *solely* on information supplied in the appropriate space for identifying the assignment data, i.e., item 3 of the Fee(s) Transmittal Form PTOL-85B. After payment of the issue fee, correction of assignment data submitted on the PTOL-85B can only be done by Certificate of Correction under 37 CFR 1.323, which requires petition under 37 CFR 3.81(b).

A request for a patent to be corrected to state the name of the assignee must:

- A. state that the assignment was submitted for recordation as set forth in 37 CFR 3.11 before issuance of the patent;
- B. include a request for a certificate of correction under 37 CFR 1.323 along with the fee set forth in 37 CFR 1.20(a); and
- C. include the processing fee set forth in 37 CFR 1.17(i).

If the request is granted, Certificates of Correction Branch will be notified that a Certificate of Correction may be issued.

See Manual of Patent Examining Procedure, Section 1481.01 (Rev. 3) (Oct. 2005).

*Applicant has not included items B and or C above, accordingly, the request for Certificate of Correction to add or change the assignee data is dismissed.*

Any request under 37 CFR 3.81(b) should be directed to the following address or facsimile number:

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Alexandria, VA 22313-1450

By hand: Customer Service Window  
Mail Stop Petitions  
Randolph Building  
401 Dulany Street  
Alexandria, VA 22314

By fax: 571-273-8300 ATTN: Office of Petitions

If a fee (currently \$100) was previously submitted for consideration of a Request for Certificate of Correction, under CFR 1.323, to correct assignment data, no additional fee is required.

If, the petition under 37 CFR 1.182 (required fee currently \$130), is filed and granted, the patentee would be entitled to a certificate of correction under 37 CFR 1.323 (required fee currently \$100).

**Ernest C. White, *LIE***

For Mary F. Diggs (703) 308-9390 x 125

Decisions & Certificates  
of Correction Branch  
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